

# 1233 WIDE-RANGE MUSICAL SOUND LOUDSPEAKER SYSTEM



## DESCRIPTION

Altec's highly portable 1233 speaker system contains a combination of high-quality, high-power components within an enclosure of modest dimensions. Designed to meet the demanding performance standards of professional musicians, the 1233 handles up to 120 watts of continuous, undistorted power, includes mountings for bi-amplification, and yields an extremely wide angle of coverage.

Superb performance is the result of recent developments. A newly-designed high-frequency driver, constructed with the patented Tangerine™ radial phase plug, yields significantly more high end bandwidth with flat response. Altec's 15-inch musical instrument-type loudspeaker with refinements in cone design gives smoother low end response. And the 1233's crossover network, specially designed

to enhance the performance and reliability of the system, provides a smooth crossover at 1200 Hz.

Because of its compact size, professional roadability, efficiency, and high power handling, the 1233 system is often a travelling companion to large gospel groups and musicians needing the portability yet reliability night after night in concerts and nightclubs. Professional in appearance, the 1233 handsomely displays a black leather-grained vinyl exterior and a removable textured-polyester cloth grille. Special metal corner guards and recessed handles improve physical handling and set-up. The enclosure itself is ruggedly designed, heavily braced and acoustically damped to maximize its performance as a high-level musical sound loudspeaker system.

## SPECIFICATIONS

<b>Components:</b>	421-8 LF 15" Musical Instrument Loudspeaker 811B High-Frequency Sectoral Horn 808-8B High Frequency Driver with Tangerine™ 1233 Dividing Network	<b>Crossover Network:</b>	1200 Hz crossover, full-range, dual LC network, 12 dB/octave slope
<b>Power Ratings:</b>	Long-Term Broad-Band Maximum Power: Up to 120 watts of band-limited pink noise	<b>Input Connections:</b>	Two standard phone jacks, wired in parallel
<b>Frequency Response:</b>	50 Hz to 20 kHz	<b>Enclosure Type:</b>	Bass reflex-type; heavily braced, acoustically damped, rigid enclosure of 3/4" particle board and plywood
<b>Impedance:</b>	8 ohms	<b>Finish:</b>	Black leather-grained vinyl with removable textured-polyester cloth grille, metal corner guards, recessed handles
<b>Pressure Sensitivity:</b>	100.5 dB SPL measured at 4' on axis with 1 watt input of pink noise band-limited from 500 Hz to 3 kHz. Equal to E.I.A. rating of 53.5 dB with 1 mW input (Ref.: 0.0002 dyne/cm <sup>2</sup> ) 120 dB SPL measured at 4' on axis with 100 watts input (full power rating) of pink noise from 500 Hz to 3 kHz (Ref.: 0.0002 dyne/cm <sup>2</sup> )	<b>Dimensions:</b>	33" (83.82 cm) H x 28" (71.12 cm) W x 19" (48.26 cm) D
		<b>Weight:</b>	112 lb. (508 kg)
		<b>Accessories (included with system):</b>	50', 2-conductor cable with standard phone plug on each end

	421-8 LF 15" BASS DRIVER	808-8B COMPRESSION DRIVER*
<b>Voice Coil Diameter:</b>	3"	1.75"
<b>Voice Coil Material:</b>	Copper	Aluminum
<b>Magnetic Assembly Weight:</b>	17 1/2 lb (7.94 kg)	1-1/5 lb (0.54 kg)
<b>Magnet Material:</b>	Ceramic	Alnico V
<b>Flux Density:</b>	13,000 gauss	15,250 gauss
<b>Dimensions:</b>	15" (38.1 cm) Diameter, 6 3/8" (76.2 cm) Depth	4 1/2" (11.4 cm) Diameter, 3 1/16" (9.4 cm) Depth
<b>Weight:</b>	22 lb (10 kg)	7 lb (3.2 kg)

### 811B SECTORAL HORN

<b>Dimensions:</b>	8 5/8" (21.9 cm) H x 18 3/4" (47.6 cm) W x 13 1/2" (34.3 cm) D
<b>Weight:</b>	9 lb (4.08 kg)

\*Contains patented Tangerine™ radial phase plug, only from Altec.

## ARCHITECT AND ENGINEER SPECIFICATIONS

The musical sound system shall be a two-way loudspeaker system with a 15" low-frequency loudspeaker, a high-frequency compression driver loaded with a cast aluminum sectoral horn, and a dividing network having a crossover frequency of 1200 Hz, mounted in a bass reflex-type enclosure.

The system shall meet the following structural and performance criteria. The enclosure shall be constructed of heavily braced 3/4" wood, shall be acoustically damped, and shall be finished in black vinyl with removable grille, metal corner

guards, and recessed handles. Power capacity: up to 120 watts of continuous pink noise, band-limited from 50 to 20,000 Hz. Frequency response, 50 to 20,000 Hz. Crossover frequency, 1200 Hz, and crossover slope, 12 dB/octave. Pressure sensitivity, 100.5 dB SPL measured on axis with 1 watt input of pink noise band-limited from 500 Hz to 3,000 Hz. Impedance, 8 ohms. Dimensions, 33" H x 28" W x 19" D. Net weight, 112 lb.

The loudspeaker system shall be the ALTEC Model 1233.

**ALTEC**  
SOUND PRODUCTS DIVISION

1515 SOUTH MANCHESTER AVENUE, ANAHEIM, CALIFORNIA 92803